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L4: Entry 1 of 5

File: USPT

Jun 5, 2001

US-PAT-NO: 6242173

DOCUMENT-IDENTIFIER: US 6242173 B1

TITLE: Immunoassays for catalytically-active, serine proteases

DATE-ISSUED: June 5, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mann; Kenneth G.	Shelburne	VT		
Williams; Brady	St. Paul	MN		
Tracy; Russell P.	Essex Junction	VT		

US-CL-CURRENT: 435/4; 435/13, 435/28, 435/7.1, 436/124, 436/501, 436/536, 436/63,  
436/86, 530/300

## ABSTRACT:

Methods for detecting and/or quantifying catalytically-active, serine proteases in a biological fluid are disclosed. The methods are useful for measuring the active enzymes of the coagulation/fibrinolytic system and evaluating the system or components of the system as indicative of thrombosis-related disorders. The methods involve the combined use of halomethyl ketone probes having broad specificity for catalytically-active serine proteases and immunological reagents specific for serine proteases of particular types. The halomethyl ketone probes are active site specific; they are only incorporated into catalytically-active serine proteases. An antibody is used to provide specificity for the particular type of serine protease. By the combined active-site-specificity of the halomethyl ketone probes and the type-specificity of the antibody, the catalytically-active fraction of a particular serine protease is determined.

36 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RIMC
Draw Desc	Image										

☐ 2. Document ID: US 5627036 A

L4: Entry 2 of 5

File: USPT

May 6, 1997

US-PAT-NO: 5627036

DOCUMENT-IDENTIFIER: US 5627036 A

TITLE: Use of an anticoagulant as a diagnostic agent

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reutelingsperger; Christiaan	Maastricht			NLX

US-CL-CURRENT: 435/7.21; 424/1.21, 424/1.61, 424/9.6, 435/13, 435/810, 435/968,  
436/15, 436/17, 436/545, 436/546, 436/57, 436/69, 436/801, 436/804, 436/821

ABSTRACT:

Detectably labelled annexins and compositions thereof are disclosed. Also disclosed are methods for diagnosing a disruption or activation of the hemostatic system or a prothrombotic state in an individual suspected of having a hemostatic disorder, by contacting the blood of said individual with an annexin, and detecting whether an annexin-platelet complex is formed.

27 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 3. Document ID: US 5552296 A

L4: Entry 3 of 5

File: USPT

Sep 3, 1996

US-PAT-NO: 5552296

DOCUMENT-IDENTIFIER: US 5552296 A

TITLE: Method for the determination of coagulation parameters

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adema; Enno	Tutzing			DEX
Gebert; Ulrike	Seeshaupt			DEX
Herz; Reinhard	Poecking/Possenhofen			DEX

US-CL-CURRENT: 435/13; 435/4, 435/69.6, 435/7.25, 436/16, 436/18, 436/63, 436/74,  
514/822, 514/834

ABSTRACT:

In a method for the determination of coagulation parameters in sample material via a reaction cascade in which a thrombin-catalyzed formation of a fibrin clot from fibrin monomers occurs and the formation of the fibrin clot is measured, an inhibitor of F XIII is added. By this means the reaction vessel can be used several times for coagulation tests.

18 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC

☐ 4. Document ID: US 5455158 A

L4: Entry 4 of 5

File: USPT

Oct 3, 1995

US-PAT-NO: 5455158

DOCUMENT-IDENTIFIER: US 5455158 A

TITLE: Fibrin binding domain polypeptides and uses and methods of producing same

DATE-ISSUED: October 3, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vogel; Tikva	Rehovot			ILX
Levanon; Avigdor	Rehovot			ILX
Werber; Moshe M.	Tel Aviv			ILX
Guy; Rachel	Rehovot			ILX
Panet; Amos	Jerusalem			ILX

US-CL-CURRENT: 435/7.21; 424/1.69, 424/9.341, 424/9.4, 435/13, 435/7.8, 436/503,  
436/504, 436/69

## ABSTRACT:

This invention provides an imaging agent which comprises a polypeptide labeled with an imageable marker, such polypeptide having an amino acid sequence substantially present in the fibrin binding domain of naturally-occurring human fibronectin and being capable of binding to fibrin. The invention further provides a method wherein the imaging agent is used for imaging a fibrin-containing substance, i.e., a thrombus or atherosclerotic plaque. Further provided are plasmids for expression of polypeptides having an amino acid sequence substantially present in the fibrin binding domain of naturally-occurring human fibronectin and being capable of binding to fibrin, hosts containing these plasmids, methods of producing the polypeptides, methods of treatment using the polypeptides, and methods of recovering, refolding and reoxidizing the polypeptides. The invention also provides for purified polypeptides substantially free of other substances of human origin which have an amino acid sequence substantially present in the fibrin binding domain of naturally-occurring human fibronectin and which are capable of binding to fibrin.

8 Claims, 98 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 5. Document ID: US 5011686 A

L4: Entry 5 of 5

File: USPT

Apr 30, 1991

US-PAT-NO: 5011686

DOCUMENT-IDENTIFIER: US 5011686 A

TITLE: Thrombus specific conjugates

DATE-ISSUED: April 30, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pang; Roy H. L.	Medway	MA		

US-CL-CURRENT: 424/94.1; 424/94.63, 424/94.64, 435/13, 435/183, 435/215, 435/216, 514/12, 514/2, 530/300, 530/324, 530/345, 530/350

## ABSTRACT:

Disclosed is a method of targeting reagents to the locus of a clot, and a family of substances that have affinity for fibrin. The method and substances exploit the discovery that the binding sites on protein A from Staphylococcus aureus have a significant affinity for fibrin. These fragments, analogs thereof, and oligomers of the fragments or analogs, may be attached to fibrinolytic enzymes, remotely detectable radiation emitting moieties, or healing agents to produce reagents which have affinity for the site of a wound or intravascular clot where fibrin has been deposited. Constructs comprising repeats of truncated analogs of the binding domain have low affinity for circulating immunoglobulin and high affinity for fibrin.

11 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 11

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